

**COOLACE**

**Automation Engineers Pvt. Ltd.**

Industrial Hydraulics • Oil Cooling Solutions



**Technically Superior  
Budget Friendly**

## **Gasket Free Plate Heat Exchangers**

[www.aircooledoilcoolers.com](http://www.aircooledoilcoolers.com)  
[www.acefluidpower.com](http://www.acefluidpower.com)

# Water Cooled Oil Cooling Solutions

Our state-of-the-art Gasket Free Plate Heat Exchanger (GFPT) is engineered to deliver **high-performance heat transfer** in a compact and robust design. Constructed from a series of thin, corrugated plates, the unit is copper-fused in a vacuum furnace to ensure **superior strength, durability, and leak-proof sealing** under **high-pressure conditions**.

The specially designed corrugated plate pattern induces **enhanced turbulence** within the flow channels, significantly improving heat transfer efficiency while maintaining optimal performance.

Ideal for a wide range of applications, the GFPT is perfectly suited for cooling and heating of **hydraulic oil, lubricating oil, water, air, steam, gases, and other industrial fluids**—making it a reliable and efficient solution for modern thermal management needs.

## BENEFITS :



Economical



No Gaskets  
No Leaks



Compact



High Pressure



Low  
Maintenance

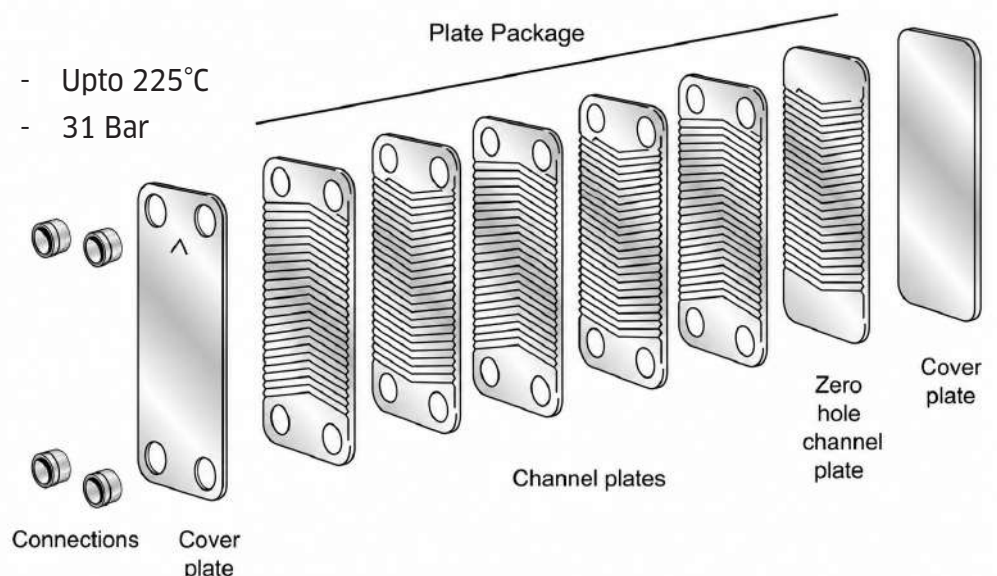


High Thermal  
Efficiency

## RANGE :

Our standard range of Gasket Free Plate Heat Exchangers ensures you competitive pricing, high quality and short delivery times

- Max. Working Temperature - Upto 225°C
- Max. Working Pressure - 31 Bar



# Quick Selection Guide

## Selection Chart for Hydraulic Oil Coolers based on (ISO VG 32)

Water Flow Rate = Oil Flow rate | Water Entering Temperature = 32°C | System Oil Temperature = 55°C  
Based on Power Pack Efficiency: 70%

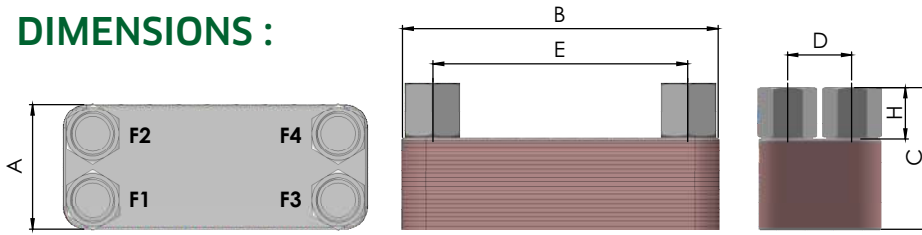
Hydraulic Power Pack Motor		Heat Dissipation		OIL FLOW (LPM)													
HP	kW	kW	kcal / h	2	5	10	20	40	60	80	100	120	140	180	220	240	280
< 3	< 2.2	0.7	568	CA-1020	CA-1020	CA-1020	CA-1020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
5	3.7	1.1	955		CA-1020	CA-1020	CA-1020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
8	5.5	1.7	1419		CA-2050	CA-1020	CA-1020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
10	7.5	2.3	1935		CA-2050	CA-1020	CA-1020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
13	9.3	2.8	2399		CA-5020	CA-3030	CA-1020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
15	11	3.3	2838		CA-5040	CA-3030	CA-3030	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
20	15	4.5	3870			CA-5020	CA-2050	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
25	19	5.6	4773			CA-5070	CA-2050	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
30	22	6.6	5676			CA-5070	CA-2050	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
40	30	9.0	7740					CA-5030	CA-2020	CA-3030	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
50	37	11.1	9546					CA-5050	CA-2030	CA-3030	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
60	45	13.5	11610					CA-5020	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
75	55	16.5	14190					CA-5030	CA-2050	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
100	75	22.5	19350						CA-5030	CA-2050	CA-2030	CA-2020	CA-2020	CA-4030	CA-4030	CA-4020	CA-4020
120	90	27.0	23220						CA-5060	CA-5030	CA-5020	CA-2030	CA-2020	CA-5020	CA-5040	CA-5050	CA-4030
150	110	33.0	28380							CA-5060	CA-5030	CA-5030	CA-5030	CA-5020	CA-5040	CA-5050	CA-5080
170	125	37.5	32250							CA-5090	CA-5050	CA-5030	CA-5030	CA-5020	CA-5040	CA-5050	CA-5080
180	132	39.6	34056								CA-5060	CA-5040	CA-5030	CA-5020	CA-5040	CA-5050	CA-5080
215	160	48.0	41280									CA-5070	CA-5050	CA-5030	CA-5040	CA-5050	CA-5080
240	180	54.0	46440										CA-5070	CA-5040	CA-5040	CA-5050	CA-5080
270	200	60.0	51600											CA-5060	CA-5040	CA-5050	CA-5080
300	225	67.5	58050											CA-5080	CA-5050	CA-5040	CA-5080
335	250	75.0	64500												CA-5070	CA-5050	CA-5080
425	315	94.5	81270														CA-5080

## Selection Chart for Lubrication Oil Coolers based on (ISO VG 220)

Water Flow Rate = Oil Flow rate | Water Entering Temperature = 32°C | System Oil Temperature = 75°C

Heat Dissipation		OIL FLOW (LPM)													
kW	kcal/h	2	5	10	20	40	60	80	100	120	140	180	220	240	280
2	1720	CA-3030	CA-3030	CA-1020	CA-3030	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
5	4300		CA-5020	CA-3030	CA-3030	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
6	5160		CA-5040	CA-3040	CA-3030	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
8	6880			CA-5020	CA-3040	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
10	8600			CA-5040	CA-5020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
13	11180				CA-5020	CA-3030	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
15	12900				CA-5040	CA-5020	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
18	15480				CA-5040	CA-5020	CA-3030	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
20	17200				CA-5090	CA-5020	CA-5020	CA-2020	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
24	20640					CA-5040	CA-5020	CA-2050	CA-2020	CA-2020	CA-2020	CA-4020	CA-4020	CA-4020	CA-4020
30	25800					CA-5050	CA-5040	CA-5030	CA-2050	CA-2050	CA-2020	CA-4030	CA-4030	CA-4020	CA-4020
35	30100					CA-5070	CA-5040	CA-5030	CA-5040	CA-2050	CA-4030	CA-5080	CA-5060	CA-4030	CA-4030
40	34400					CA-5090	CA-5060	CA-5040	CA-5040	CA-5040	CA-2050	CA-5080	CA-5060	CA-5060	CA-4030
45	38700						CA-5060	CA-5040	CA-5040	CA-5040	CA-5040	CA-5080	CA-5060	CA-5060	CA-5080
50	43000						CA-5080	CA-5080	CA-5040	CA-5040	CA-5040	CA-5080	CA-5060	CA-5060	CA-5080
60	51600							CA-5090	CA-5080	CA-5040	CA-5040	CA-5080	CA-5060	CA-5060	CA-5080
80	68800									CA-5090	CA-5090	CA-5080	CA-5060	CA-5060	CA-5080
100	86000											CA-5080	CA-5060	CA-5060	CA-5080
120	103200												CA-5090	CA-5080	CA-5090

## DIMENSIONS :



## MATERIAL :

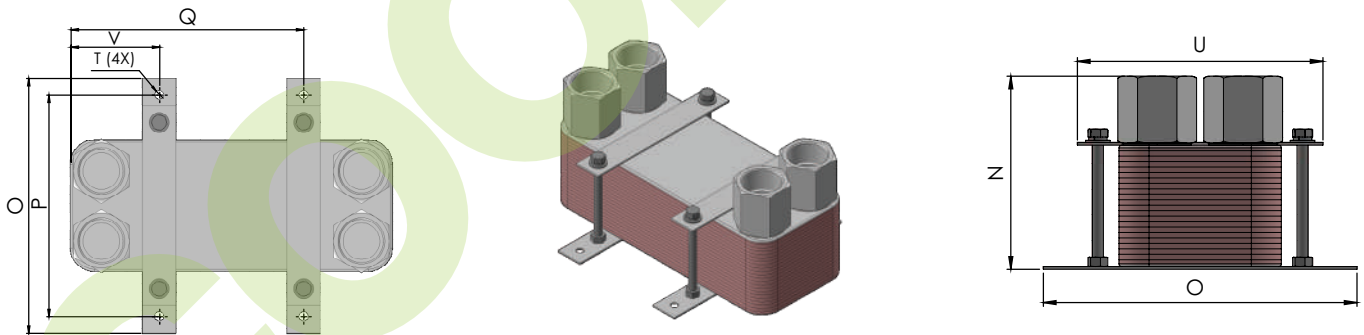
Plates : SS316  
 Connectors : CS / Brass  
 Fusing : Copper

Gasket Free Plate Heat Exchanger												
Model No.	Item Code	A	B	C	D	E	Oil Side F1 & F3	Water Side F2 & F4	H	Approx. Empty Weight	Approx. Filled Weight	Approx. Fill Volume
		mm± 1	mm± 2	mm± 3%	mm± 1	mm± 1	BSP(F)	BSP(F)	mm± 2	Kg	Kg	Ltr.
CA-1020	0702-20-0.25	54.4	119.4	64.2	26	91	G 3/8"	G 3/8"	31	0.43	0.52	0.11
CA-2020	1105-20-10	119	289	110.9	72	273	G 1"	G 1"	51	4.02	5.09	1.28
CA-2030	1105-30-10	119	289	133.7	72	273	G 1"	G 1"	51	4.98	6.6	1.94
CA-2050	1105-50-10	119	289	179.4	72	273	G 1"	G 1"	51	6.9	9.66	3.30
CA-3030	1203-30-0.75	73	315	116.5	40	278	G 3/4"	G 3/4"	41.5	2.63	3.67	1.24
CA-3040	1203-40-0.75	73	315	140.5	40	278	G 3/4"	G 3/4"	41.5	3.38	4.78	1.67
CA-4020	1105-20-12.5	119	290	118.4	63	234	G 1-1/4"	G 1-1/4"	52	5.34	6.44	1.31
CA-4030	1105-30-12.5	119	290	142.3	63	234	G 1-1/4"	G 1-1/4"	52	6.54	8.22	2.01
CA-5020	2105-20-12.5	119	526	116.2	63	470	G 1-1/4"	G 1-1/4"	52	5.97	7.95	2.37
CA-5030	2105-30-12.5	119	526	139	63	470	G 1-1/4"	G 1-1/4"	52	7.91	10.92	3.60
CA-5040	2105-40-12.5	119	526	162	63	470	G 1-1/4"	G 1-1/4"	52	9.85	13.88	4.81
CA-5050	2105-50-12.5	119	526	186	63	470	G 1-1/4"	G 1-1/4"	52	11.79	16.82	6.01
CA-5060	2105-60-12.5	119	526	208	63	470	G 1-1/4"	G 1-1/4"	52	13.73	19.81	7.26
CA-5070	2105-70-12.5	119	526	222	63	470	G 1-1/4"	G 1-1/4"	52	15.67	22.78	8.49
CA-5080	2105-80-12.5	119	526	253.8	63	470	G 1-1/4"	G 1-1/4"	52	17.61	25.75	9.73
CA-5090	2105-90-12.5	119	526	276.8	63	470	G 1-1/4"	G 1-1/4"	52	19.55	28.73	10.97

Note: GFPT units are available in wide range of oil flow handling & heat dissipation capacity.  
 (Contact us for non stock models)

## MOUNTING ARRANGEMENTS :

The GFPT units are designed for easy and flexible installation. Sturdy brackets enable secure vertical or horizontal mounting, ensuring stability and durability in operation.

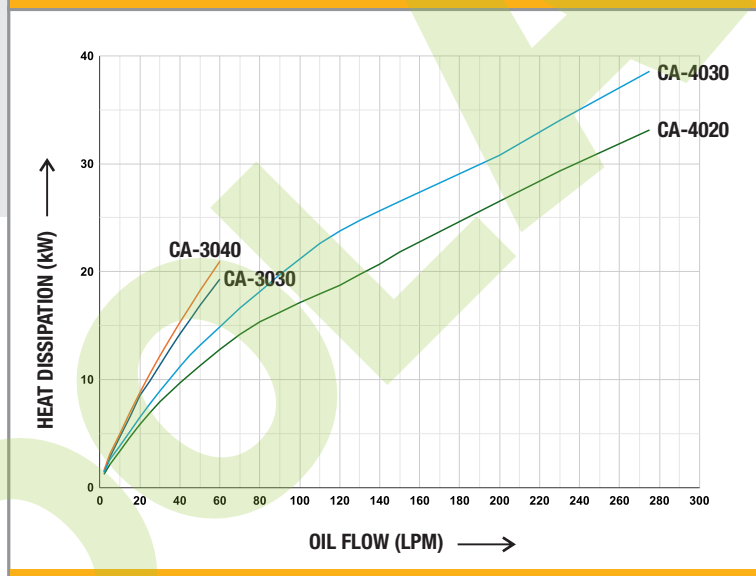
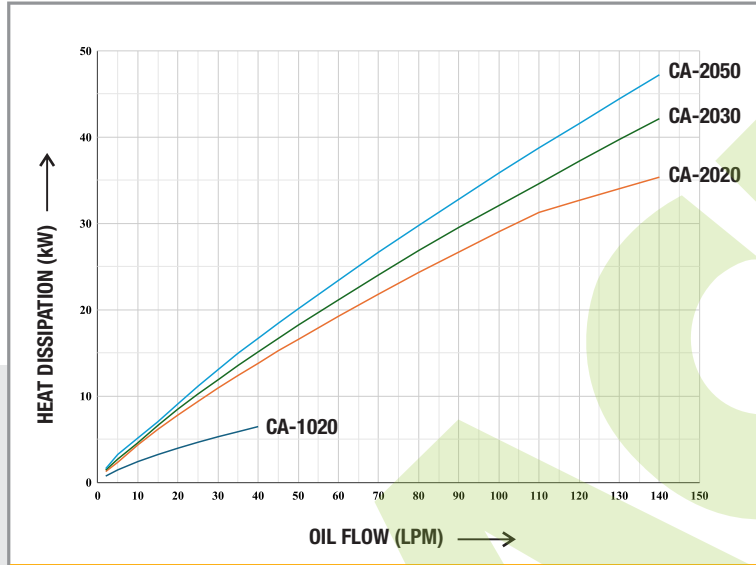


Model No.	Item Code	N mm ± 3%	O mm ± 2	P mm ± 1	Q mm ± 2	T Ø mm ± 0.5	V mm ± 2
CA-1020	0702-20-0.25	68	150	130	79.7	7	39.7
CA-2020	1105-20-10	115	220	200	209.5	9	79.5
CA-2030	1105-30-10	138	220	200	209.5	9	79.5
CA-2050	1105-50-10	184	220	200	209.5	9	79.5
CA-3030	1203-30-0.75	121	173	153	250.0	9	65.0
CA-3040	1203-40-0.75	145	173	153	250.0	9	65.0
CA-4020	1105-20-12.5	123	220	200	210.0	9	80.0
CA-4030	1105-30-12.5	146	220	200	210.0	9	80.0
CA-5020	2105-20-12.5	120	220	200	446.0	9	80.0
CA-5030	2105-30-12.5	143	220	200	446.0	9	80.0
CA-5040	2105-40-12.5	166	220	200	446.0	9	80.0
CA-5050	2105-50-12.5	190	220	200	446.0	9	80.0
CA-5060	2105-60-12.5	212	220	200	446.0	9	80.0
CA-5070	2105-70-12.5	226	220	200	446.0	9	80.0
CA-5080	2105-80-12.5	258	220	200	446.0	9	80.0
CA-5090	2105-90-12.5	281	220	200	446.0	9	80.0

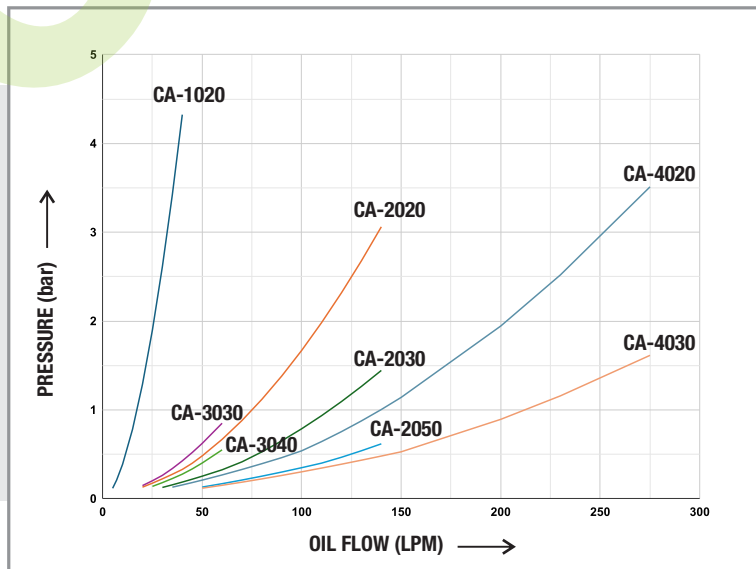
# ISO VG 32 HYDRAULIC OIL

Water: Oil = 1:1 | Oil Inlet Temp: 60°C | Water Inlet Temp: 30°C

PERFORMANCE  
GRAPHS



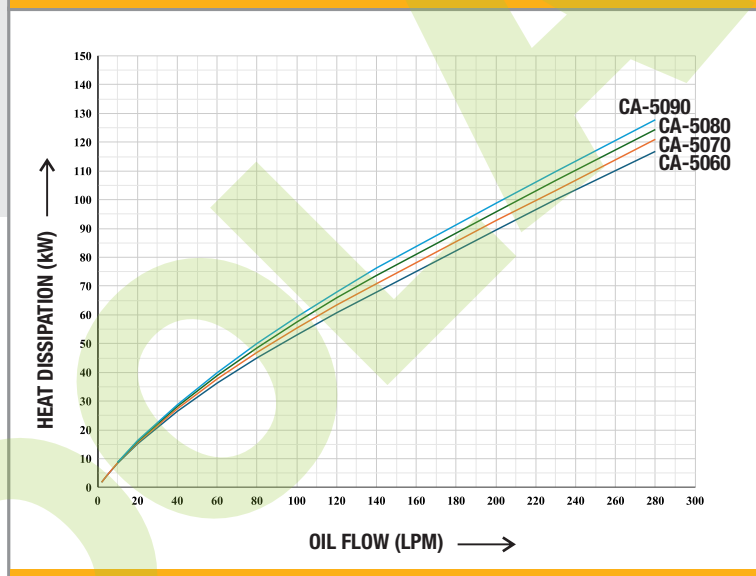
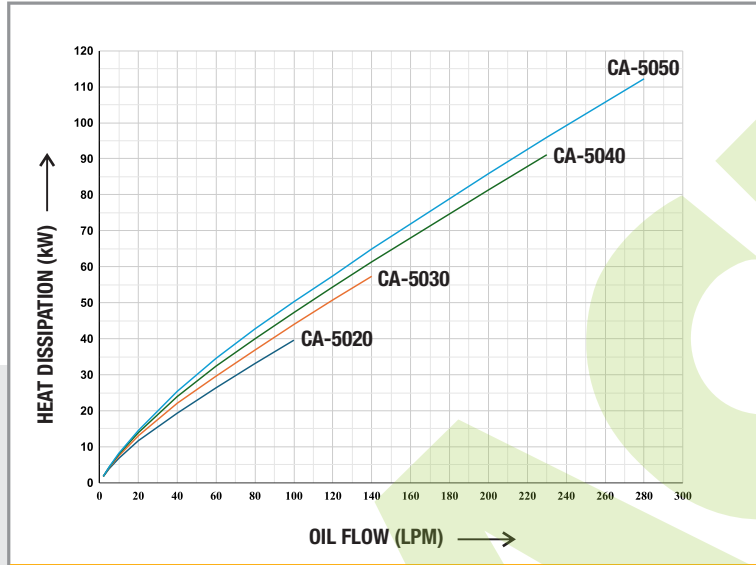
PRESSURE DROP  
GRAPH



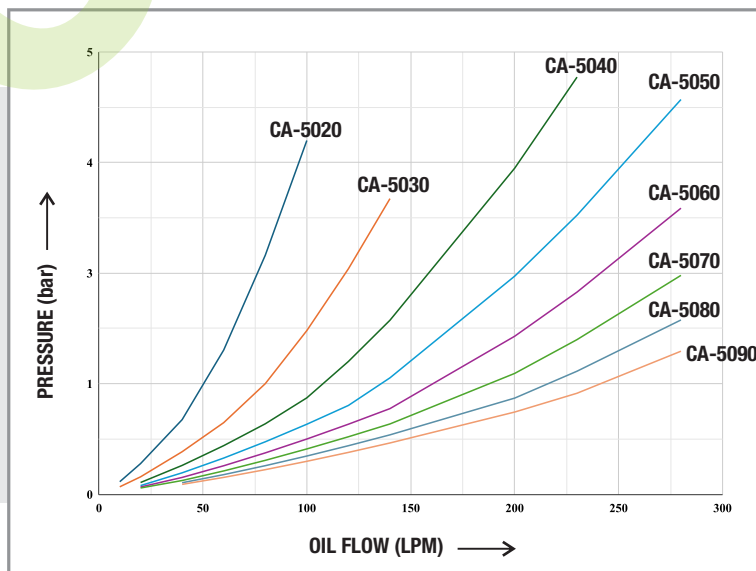
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PERFORMANCE  
GRAPHS



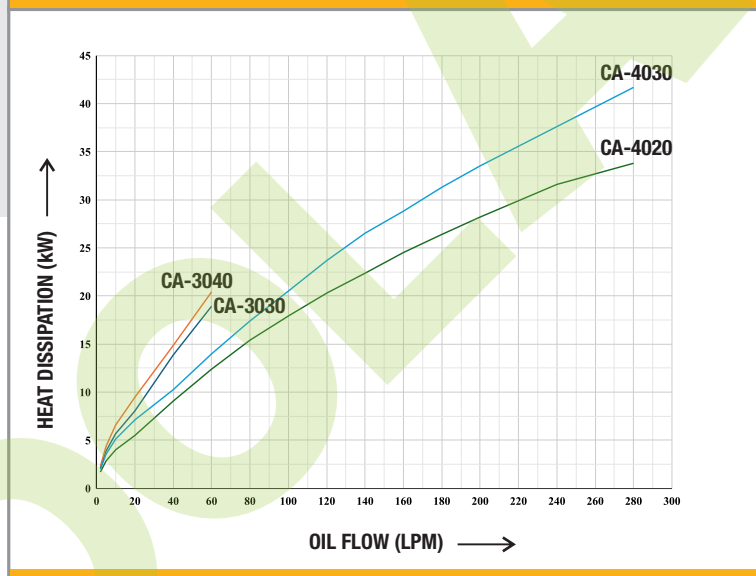
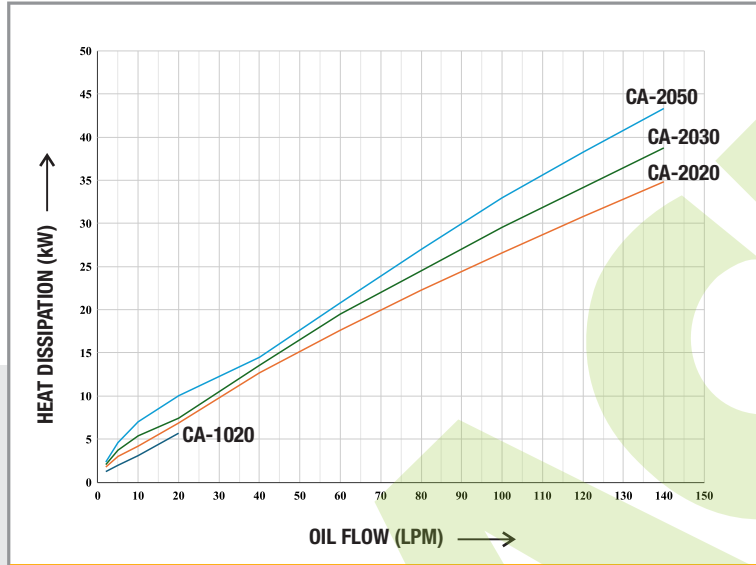
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GRAPH



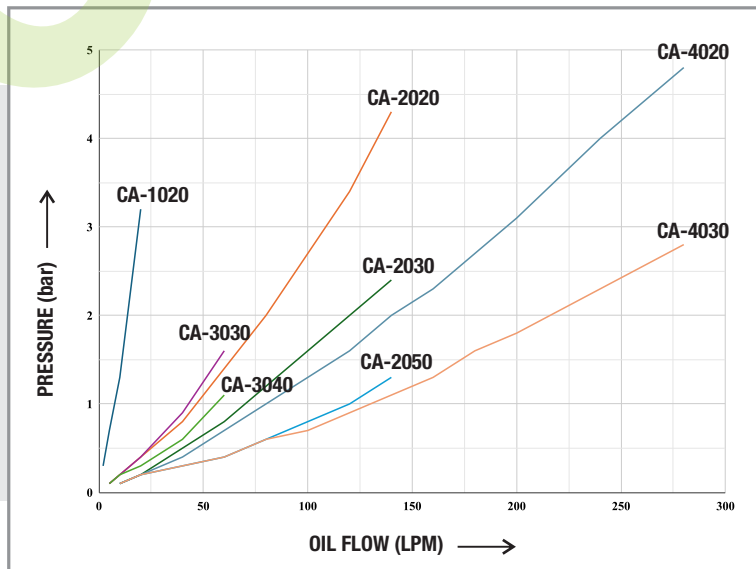
# ISO VG 220 LUBRICATION OIL

Water: Oil = 1:1 | Oil Inlet Temp: 75°C | Water Inlet Temp: 30°C

PERFORMANCE  
GRAPHS



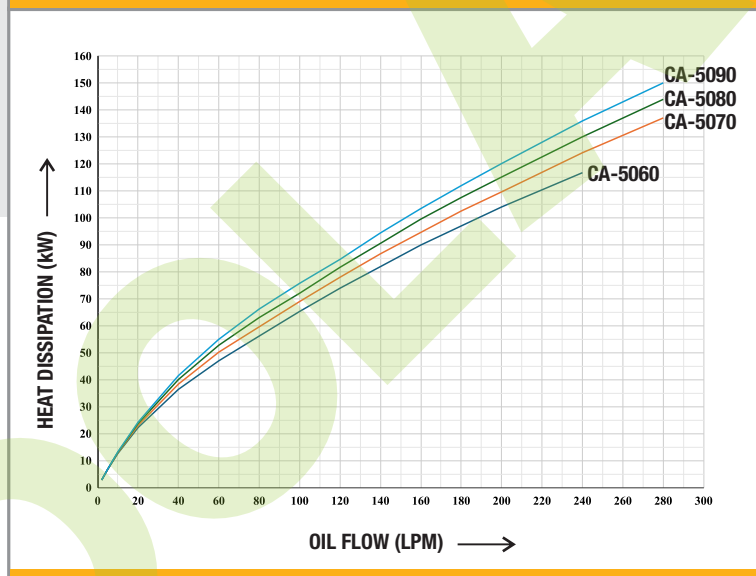
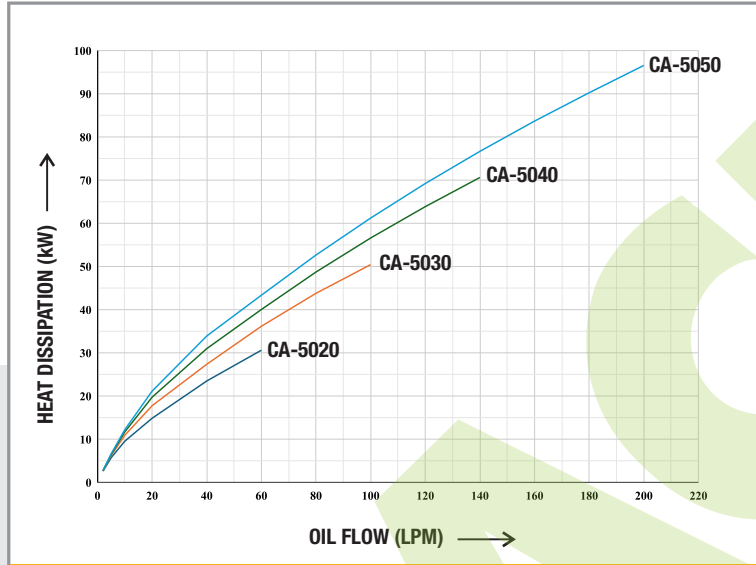
PRESSURE DROP  
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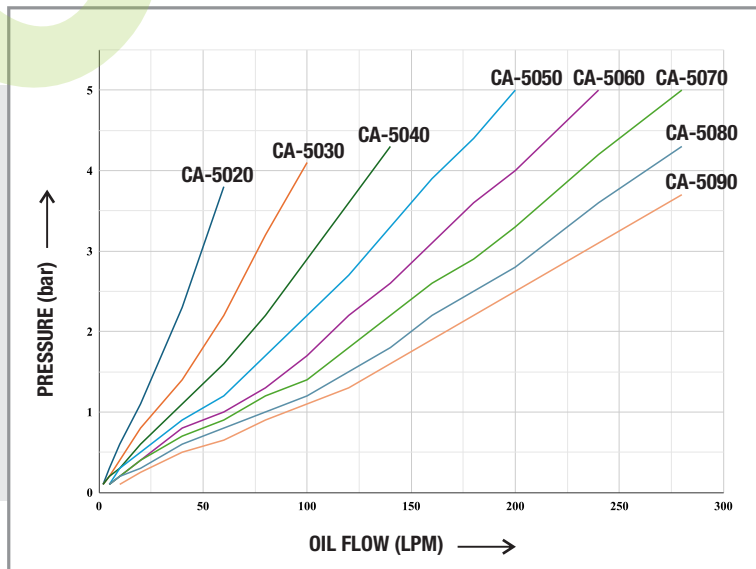
# ISO VG 220 LUBRICATION OIL

Water: Oil = 1:1 | Oil Inlet Temp: 75°C | Water Inlet Temp: 30°C

PERFORMANCE  
GRAPHS



PRESSURE DROP  
GRAPH



# Product Portfolio



**Offline Water Cooled Oil Cooling System /  
LOS System**



**Hydraulic Cylinders**



**Offline Air Cooled Oil Cooling System /  
LOS System**



**Hydraulic Power Packs /  
Lubrication System**



**Air Cooled Oil Cooler**



**Oil Filtration Trolley**

# Industries Served



**Hydraulics**



**Steel**



**Paper**



**Energy**



**Cement**



**Hydraulic Press**



**Power Generation**



**Mining**

# COOLACE

## EXPORTS TO 20 COUNTRIES



## OUR PRESTIGIOUS CLIENTS

 ADITYA BIRLA GROUP	 Fluid Logic SYSTEMS Pvt. Ltd. A JINDAL SYSTEMS COMPANY OF THE JINDAL GROUP INDIA'S LEADING MANUFACTURING AND TECHNOLOGY-DRIVEN ENTERPRISE	 VELJAN	 Forming Tomorrow. Today!	 JK LAKSHMI CEMENTS	 Continental Equipment Trading FZE (RBI Public, Motor and Industrial Products)
 SHAKTIMAN KNOW AGRICULTURE KNOW ECONOMICS	 ESCORTS Agri Machinery जय किसान	 LARSEN & TOUBRO	 HERO MOTORS	 JINDAL STAR	 TOYOTA KIRLOSAR AUTO PARTS PVT LTD
 HIGHWOOD	 kangaro®	 KNORR-BREMSE INDIA	 BIRLA	 Rossi	 RockTek
 Escorts Kubota Limited	 RELIANCE Cement	 JINDAL STEEL & POWER	 MSN Make it's spinning	 ESSAR STEEL	 Shree Digvijay Cement Co. Ltd
 Bonfiglioli	 MEWAR HI-TECH	 SHREE TECHNOMECH ENGINEERING	 सेल SAIL	 JINDAL	 Subros
 TATA STEEL BSL (Formerly Known As Bhushan Steel Limited)	 Triveni ENGINEERING	 AUTO MECK An ISO 9001:2015 Company	 YUKEN Depend On us	and many more...	


# **COOLACE**


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Industrial Hydraulics • Oil Cooling Solutions

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